

CLAIMS

We claim:

1. An absorbent article comprising:

- (a) an outer cover;
- (b) a liquid permeable bodyside liner that defines a bodyfacing surface and that is connected in superposed relation to the outer cover;
- (c) an absorbent body that is located between the bodyside liner and the outer cover; and
- (d) a composition on at least a portion of the bodyfacing surface of the bodyside liner wherein the composition has a Tangent Delta value of from about 0.10 to about 0.65 measured over a temperature range of 35 to 40 degrees Celsius according to a Tangent Delta Measurement Procedure set forth herein.

2. The absorbent article of claim 1 wherein the composition has a softening temperature of about 15 deg. C to about 30 deg. C.

3. The absorbent article of claim 2 wherein the composition has an elastic modulus of from about 10^5 dynes/cm² to about 10^7 dynes/cm².

4. The absorbent article of claim 3 wherein the elastic modulus has a temperature slope of from about -0.06 to about -0.08.

5. The absorbent article of claim 1, wherein the composition has a Tangent Delta value of from about 0.35 to about 0.55 measured over a temperature range of 35 to 40 degrees Celsius according to a Tangent Delta Measurement Procedure set forth herein.

6. The absorbent article of claim 1, wherein the composition includes from about 40 to about 95 percent by weight of emollient, from about 0.1 to about 40 percent by weight of viscosity enhancer and from about 0.1 to about 20 percent by weight of silicone elastomer.

7. An absorbent article comprising:

- (a) an outer cover;

(b) a liquid permeable bodyside liner that defines a bodyfacing surface and that is connected in superposed relation to the outer cover;

(c) an absorbent body that is located between the bodyside liner and the outer cover; and

5 (d) a composition on at least a portion of the bodyfacing surface of the bodyside liner that includes from about 40 to about 95 percent by weight of emollient, from about 0.1 to about 40 percent by weight of viscosity enhancer and from about 0.1 to about 20 percent by weight of silicone elastomer.

10 8. The absorbent article of claim 7, wherein the emollient of the composition is selected from petrolatum, vegetable based oils, mineral oils, dimethicone, lanolin, glycerol esters, alkoxyated carboxylic acids, alkoxyated alcohols, fatty alcohols and mixtures thereof.

15 9. The absorbent article of claim 7, wherein the viscosity enhancer of the composition is selected from polyolefin resins, lipophilic/oil thickeners, ethylene/vinyl acetate copolymers, quaternary starch compounds, natural clays, synthetic analogs of natural clays, organically modified clays, quaternary modified clays, polyethylene, silica, silica silylate, silica methyl silylate, colloidal silicone dioxide, alkyl hydroxy ethyl cellulose, microcrystalline wax, shellac wax, hexadecyl cosanyl hexacosanate, C₂₀-C₄₀ alkyl hydroxystearyl stearate, 20 glycol montanate, ozokerite wax, polyperfluoromethylisopropylether montan wax and mixtures thereof.

25 10. The absorbent article of claim 7, wherein the silicone elastomer of the composition is selected from crosslinked non-emulsifying siloxane elastomers formed from a divinyl compound reacted with Si-H linkages of a polysiloxane; crosslinked non-emulsifying siloxane elastomers formed from a C₃-C₂₀ alkyl polysiloxane compound reacted with Si-H linkages of a polysiloxane; and mixtures thereof.

30 11. The absorbent article of claim 7, wherein the silicone elastomer of the composition is selected from vinyl MQ resin/organopolysiloxane crosspolymers in which the organo group is selected from polyglycol, polyglycerol, oligosaccharide, hydroxyl-terminated polyoxyalkylene polyethers, carboxylate esters of hydroxyl-terminated polyoxyalkylene polyethers, lower alkanol ethers and mixtures thereof.

35 12. The absorbent article of claim 10, wherein the crosslinked non-emulsifying siloxane elastomers are selected from Vinyl Dimethicone/Methicone Crosspolymer, Crosslinked

Stearyl Methyl Dimethyl Siloxane Copolymer, Dimethicone/Vinyl Dimethicone Crosspolymer, Dimethicone/Phenyl Vinyl Dimethicone Crosspolymer and mixtures thereof.

5 13. The absorbent article of claim 7 wherein the composition further includes from about 5 to about 59 percent by weight of solidifying agent.

14. The absorbent article of claim 13, wherein the solidifying agent is selected from beeswax, behenyl behenate, behenyl benzoate, branched esters, candelilla wax,
 10 carnauba wax, synthetic carnauba wax, PEG-12 carnauba wax, cerasin, microcrystalline wax, hydrogenated microcrystalline wax, hexadecylcosanyl hexacosanate, polyperfluoromethylisopropylether montan wax, alkylmethylsiloxanes, glycol montanate, jojoba wax, lanolin wax, ozokerite, paraffin, synthetic paraffin, polyethylene, C₂₀-C₄₀ alkyl hydroxystearyl stearate, C₃₀ alkyl dimethicone, cetyl esters, zinc stearate, shellac wax,
 15 hydrogenated cottonseed oil, hydrogenated squalene, hydrogenated jojoba oil and mixtures thereof.

15. The absorbent article of claim 7 wherein the composition further includes from about 0.1 to about 59 percent by weight of natural fats or oils.

16. The absorbent article of claim 15, wherein the natural fat or oil is selected from Avocado Oil, Apricot Oil, Babassu Oil, Borage Oil, Camellia Oil, Canola Oil, Castor Oil, Coconut Oil, Corn Oil, Cottonseed Oil, Evening Primrose Oil, Hydrogenated Cottonseed Oil, Hydrogenated Palm Kernel Oil, Maleated Soybean Oil, Meadowfoam Oil, Palm Kernel
 25 Oil, Peanut Oil, Rapeseed Oil, Safflower Oil, Sphingolipids, Sweet Almond Oil, Tall Oil, Lauric Acid, Palmitic Acid, Stearic Acid, Linoleic Acid, Stearyl Alcohol, Lauryl Alcohol, Myristyl Alcohol, Behenyl Alcohol, Rose Hip Oil, Calendula Oil, Chamomile Oil, Eucalyptus Oil, Juniper Oil, Sandlewood Oil, Tea Tree Oil, Sunflower Oil, Soybean Oil and mixtures thereof.

17. The absorbent article of claim 7 wherein the composition further includes from about 0.1 to about 10 percent by weight of sterols or sterol derivatives.

18. The absorbent article of claim 17, wherein the sterol or sterol derivative is selected
 35 from cholesterol, sitosterol, stigmasterol, and ergosterol, as well as, C₁₀-C₃₀ cholesterol/lanosterol esters, cholecalciferol, cholesteryl hydroxystearate, cholesteryl

isostearate, cholesteryl stearate, 7-dehydrocholesterol, dihydrocholesterol, dihydrocholesteryl octyldecanoate, dihydrolanosterol, dihydrolanosteryl octyldecanoate, ergocalciferol, tall oil sterol, soy sterol acetate, lanasterol, soy sterol, avocado sterols, sterol esters and mixtures thereof.

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19. The absorbent article of claim 7 wherein the composition further includes a skin care ingredient selected from allantoin and its derivatives, aloe, aluminum hydroxide gel, calamine, cocoa butter, cod liver oil, dimethicone, glycerin, kaolin and its derivatives, lanolin and its derivatives, mineral oil, petrolatum, white petrolatum, shark liver oil, talc, topical starch, zinc acetate, zinc carbonate, zinc oxide and mixtures thereof.

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20. The absorbent article of claim 7 wherein the composition has a Tangent Delta value of from about 0.10 to about 0.65 measured over a temperature range of 35 to 40 degrees Celsius according to a Tangent Delta Measurement Procedure set forth herein.

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21. The absorbent article of claim 7 wherein the composition has a softening temperature of 15 deg. C to about 30 deg. C.

22. The absorbent article of claim 7 wherein the composition has an elastic modulus of from about 10^5 dynes/cm² to about 10^7 dynes/cm².

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23. The absorbent article of claim 7 wherein the elastic modulus has a temperature slope of from about -0.06 to about -0.08.